

FIG. 1 (PRIOR ART)

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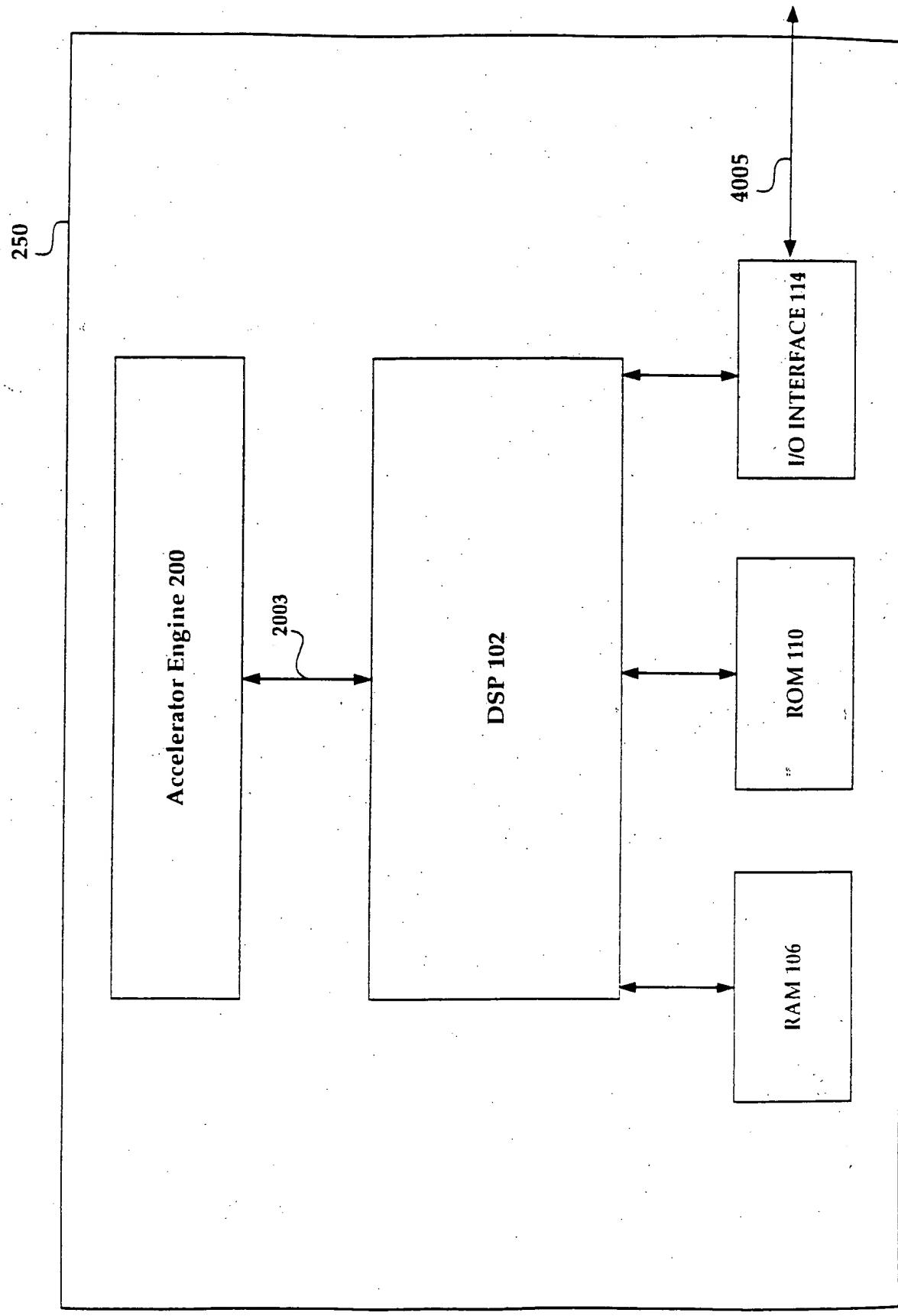


FIG. 2

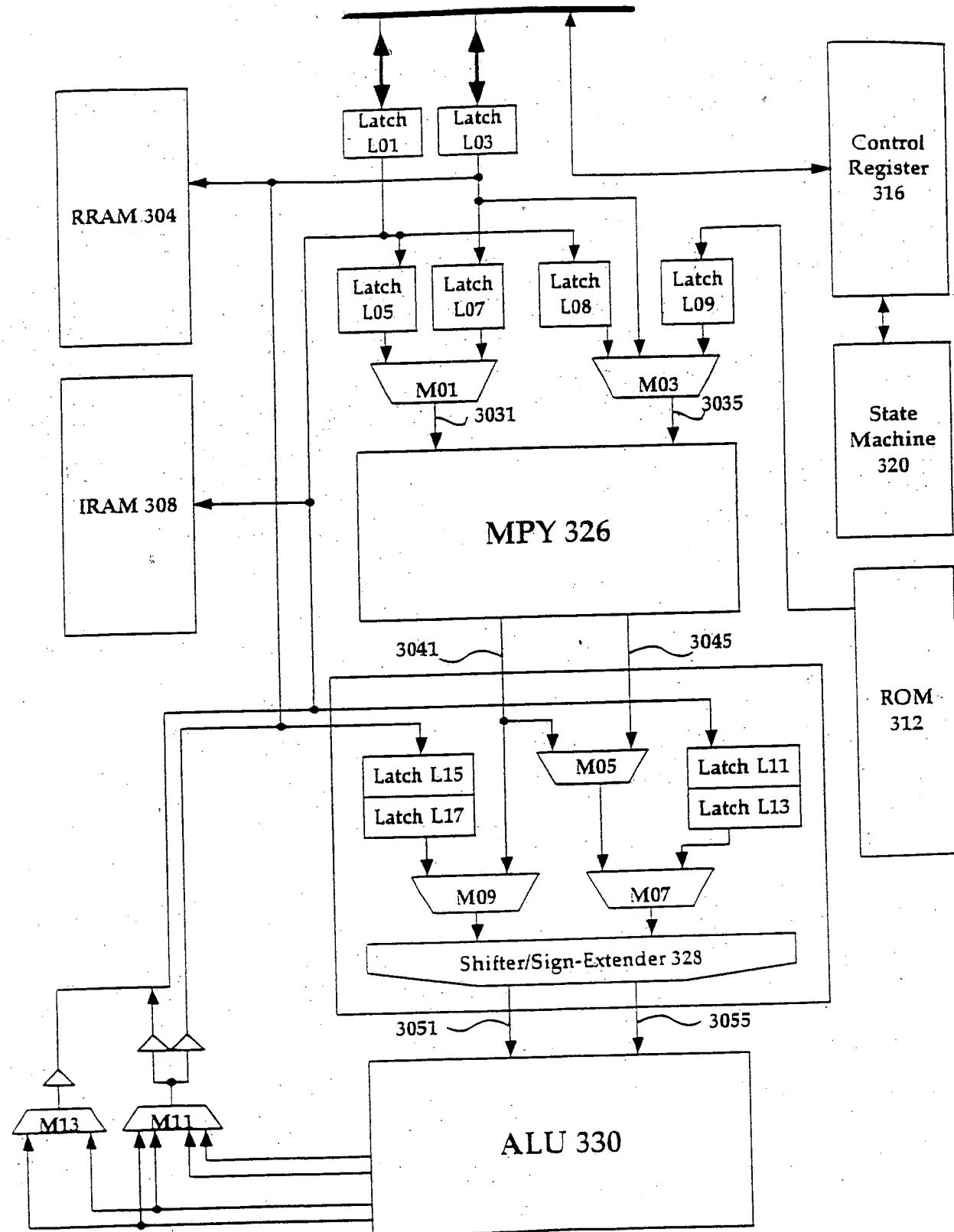
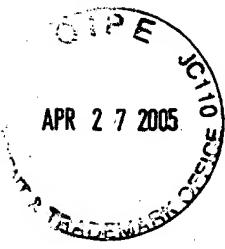


FIG. 3

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Cycle	MPY 326	ALU A	ALU B	RRAM 304	IRAM 308	ROM 312
1				read b_i	read b_i	read c_r
2						read c_i
3	$b_r * c_r$					read c_i
4	$b_i * c_i$					read c_r
5	$b_r * c_i$					
6	$b_i * c_r$	$A = b_r * c_i$				
7		$A_0 = A - (b_i * c_r)$				
8			$B = b_r * c_i$			
9			$B_0 = B + (b_i * c_r)$			
10				write b_r	write b_i	
11						
12						

FIG. 4A